



## Univar USA Inc Material Safety Data Sheet

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(425) 889 3400

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### Emergency Assistance

For emergency assistance involving chemicals call  
Chemtrec - (800) 424-9300



Univar  
3075 Highland Pkwy STE 200  
Downers Grove, IL 60515  
425-889-3400

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** ETHYLENE GLYCOL SOLUTION (NON BULK)

### Other means of identification

**SDS number:** 000100000379

### Recommended use and restriction on use

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Emergency telephone number:** For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

## 2. Hazard(s) identification

### Hazard classification

#### Health hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

### Label elements

#### Hazard symbol



**Signal word**

Warning

**Hazard statement** Causes skin irritation.  
Causes serious eye irritation.  
May cause irritation to the respiratory system.  
May be harmful if swallowed.

**Precautionary statement**

**Prevention** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash before reuse.

**Storage** Store in a closed container. Store in a dry place. Store in a well-ventilated place.

**Other hazards which do not result in GHS classification** None.

### 3. Composition/information on ingredients

#### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethylene Glycol		107-21-1	99.5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments:** The components are not hazardous or are below required disclosure

limits.

#### 4. First-aid measures

<b>Ingestion:</b>	Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.
<b>Skin contact:</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Eye contact:</b>	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Symptoms:</b>	No data available.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	No data available.
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#### 5. Fire-fighting measures

<b>General fire hazards:</b>	No data available.
<b>Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media:</b>	Use: Foam. Water. Carbon dioxide or dry powder.
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Specific hazards arising from the chemical:</b>	No data available.
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special fire fighting procedures:</b>	No data available.
<b>Special protective equipment for fire-fighters:</b>	No data available.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** No data available.

**Methods and material for containment and cleaning up:** Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

## 7. Handling and storage

**Precautions for safe handling:** Use personal protective equipment as required. Store away from incompatible materials.

**Conditions for safe storage, including any incompatibilities:** No data available.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
Ethylene Glycol - Aerosol.	Ceiling	100 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2013)
Ethylene Glycol	Ceiling	50 ppm 125 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	50 ppm 125 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Ethylene Glycol - Vapor.	ST ESL	260 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	26 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Ethylene Glycol	AN ESL	26 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	260 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Ethylene Glycol - Vapor.	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)

			Quality) (02 2013)
Ethylene Glycol	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Ethylene Glycol - Vapor.	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Ethylene Glycol	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Ethylene Glycol - Vapor.	Ceiling	40 ppm 100 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

**Appropriate engineering controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** No data available.

**Eye/face protection:** No data available.

**Skin protection**

**Hand protection:** No data available.

**Other:** No data available.

**Respiratory protection:** No data available.

**Hygiene measures:** No data available.

**9. Physical and chemical properties**

**Physical state:** Liquid

**Form:** No data available.

**Color:** Colorless

**Odor:** Mild odor

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point/freezing point:** -13 °C

**Initial boiling point and boiling range:** 197 °C

**Flash Point:** 116 °C

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

#### Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Vapor pressure: No data available.

Vapor density: No data available.

Relative density: No data available.

#### Solubility(ies)

Solubility in water: No data available.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

### 10. Stability and reactivity

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No data available.

### 11. Toxicological information

#### Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin contact: No data available.

Eye contact: No data available.

## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** LD 50 (Rat): 4,700 mg/kg

#### Dermal

**Product:**

Not classified for acute toxicity based on available data.

#### Inhalation

**Product:** No data available.

#### Repeated dose toxicity

**Product:** No data available.

#### Skin corrosion/irritation

**Product:** No data available.

#### Serious eye damage/eye irritation

**Product:** No data available.

#### Respiratory or skin sensitization

**Product:** No data available.

#### Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

#### Germ cell mutagenicity

##### In vitro

**Product:** No data available.

##### In vivo

**Product:** No data available.

#### Reproductive toxicity

**Product:** No data available.

#### Specific target organ toxicity - single exposure

**Product:** No data available.

#### Specific target organ toxicity - repeated exposure

**Product:** No data available.

#### Aspiration hazard

**Product:** No data available.

**Other effects:** No data available.



## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Specified substance(s):**

Ethylene Glycol LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): > 10,000 mg/l  
Mortality

##### Aquatic invertebrates

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and degradability

#### Biodegradation

**Product:** No data available.

#### BOD/COD ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration factor (BCF)

**Product:** No data available.

**Specified substance(s):**

Ethylene Glycol Crayfish (*Procambarus*), Bioconcentration factor (BCF): 0.61 (Flow through)  
Crayfish (*Procambarus*), Bioconcentration factor (BCF): 0.6 (Flow through)  
Crayfish (*Procambarus*), Bioconcentration factor (BCF): 0.48 (Flow through)  
Crayfish (*Procambarus*), Bioconcentration factor (BCF): 0.4 (Flow through)  
Crayfish (*Procambarus*), Bioconcentration factor (BCF): 0.42 (Flow through)

#### Partition coefficient n-octanol / water (log K<sub>ow</sub>)

**Product:** No data available.

**Specified substance(s):**

Ethylene Glycol Log K<sub>ow</sub>: -1.36

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

Ethane-1,2-diol                      No data available.

### 13. Disposal considerations

**Disposal instructions:**                      No data available.  
**Contaminated packaging:**                      No data available.

### 14. Transport information

Not regulated for US domestic ground transportation.

### 15. Regulatory information

#### **US federal regulationsUS. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

Ethylene Glycol                      Reportable quantity: 5000 lbs.

#### **Superfund amendments and reauthorization act of 1986 (SARA)**

##### **Hazard categories**

Not listed.

##### **SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

##### **SARA 304 Emergency release notification**

<b>Chemical identity</b>	<b>RQ</b>
Ethylene Glycol	5000 lbs.

##### **SARA 311/312 Hazardous chemical**

<b>Chemical identity</b>	<b>Threshold Planning Quantity</b>
Ethylene Glycol	500 lbs

##### **SARA 313 (TRI reporting)**

<b>Chemical identity</b>	<b>Reporting threshold for other users</b>	<b>Reporting threshold for manufacturing and processing</b>
Ethylene Glycol	10000 lbs	25000 lbs.

#### **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

#### **US state regulations**

##### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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**US. New Jersey Worker and Community Right-to-Know Act**

Ethylene Glycol                      Listed

**US. Massachusetts RTK - Substance List**

Ethylene Glycol                      Listed

**US. Pennsylvania RTK - Hazardous Substances**

Ethylene Glycol                      Listed

**US. Rhode Island RTK**

Ethylene Glycol                      Listed

<b>Inventory Status:</b> Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	Not in compliance with the inventory.
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

#### 16. Other information, including date of preparation or last revision

#### HMIS Hazard ID

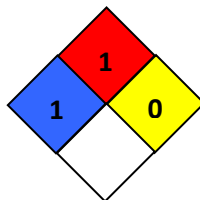
<b>Health</b>	*	1
<b>Flammability</b>		1
<b>Physical hazards</b>		
<b>PERSONAL PROTECTION</b>		B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**Further information:** Classification not possible. Consult the Supplier in Section 1 of the SDS for additional data.

#### NFPA Hazard ID



Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 04/27/2015  
**Revision date:** No data available.  
**Version #:** 1.3  
**Further information:** No data available.



# Univar USA Inc Safety Data Sheet

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For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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